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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/786,642 03/07/2001		Hideki Kawahara	MAD-C057	3762	
30132	7590 03/10/2004		EXAMINER		
GEORGE A. LOUD 3137 MOUNT VERNON AVENUE			LEWIS, MICHAEL A		
• • • • • • • • • • • • • • • • • • • •	A, VA 22305		ART UNIT	PAPER NUMBER	
	•		2655	5	
			DATE MAILED: 03/10/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		4	Application No. Applicant(s)					
•			09/786,642		KAWAHARA ET AL.			
Office Action Summary		ī	Examiner		Art Unit			
		į t	Lewis A Mich	ael	2655			
: Period for I	The MAILING DATE of this commur Reply	nication appea	ars on the c	over sheet with the	correspondence ad	ddress		
THE MA - Extension after SIX - If the per - If NO per - Failure to Any repl	RTENED STATUTORY PERIOD F ALLING DATE OF THIS COMMUN ns of time may be available under the provisions (6) MONTHS from the mailing date of this com- iod for reply specified above is less than thirty (3 riod for reply is specified above, the maximum si to reply within the set or extended period for reply received by the Office later than three months atent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136( munication. 30) days, a reply w tatutory period will y will, by statute, ca	(a). In no event, ithin the statutor apply and will example ause the applica	however, may a reply be ti y minimum of thirty (30) da xpire SIX (6) MONTHS from ion to become ABANDONE	mely filed ys will be considered time in the mailing date of this c ED (35 U.S.C. § 133).	ly. communication.		
Status								
1) <b>X</b> R	esponsive to communication(s) file	ed on 3/7/	01					
·		2b)⊠ This a		-final.				
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	of Claims							
4a 5)☐ C 6)⊠ C 7)☐ C	aim(s) <u>1-6</u> is/are pending in the application of the above claim(s) is/a aim(s) is/are allowed.  aim(s) <u>1-6</u> is/are rejected.  aim(s) is/are objected to.  aim(s) are subject to restrict	are withdrawn						
Application	Papers							
10)∐ Th Ap Re	e specification is objected to by the drawing(s) filed on is/are oplicant may not request that any objected to a continuous sheet(s) including e oath or declaration is objected to	: a) ☐ accep ection to the dra g the correction	awing(s) be l	neld in abeyance. Se if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 C			
Priority und	ler 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice o	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (Fion Disclosure Statement(s) (PTO-1449 or o(s)/Mail Date			Interview Summary Paper No(s)/Mail D Notice of Informal f	ate	O-152)		

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Art Unit: 2655

#### **DETAILED ACTION**

### Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The title should relate to filter design for voice/speech and pitch of fundamental frequency extraction.

The following title is suggested: Method and Apparatus for fundamental frequency extraction or detection is speech.

## **Drawings**

2. New corrected drawings are required in this application because Figs 4, 8 and 11 are not clear. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 1 – 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 5. Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "instantaneous frequency" in claims 1 6 are used by the claims refers to "a non-stationary aspect of the concept of instantaneous frequency". While the accepted meaning is considered constant or as a stationary parameter. The term is indefinite because the specification does not clearly redefine the term.
- 6. Please correct all grammatical errors with the specifications. In addition, all references to equations, tables or drawings should be in bold or parenthesis.

## Allowable Subject Matter

7. Claims 1 - 6 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Based on an extensive search of prior art material, none of the reference showed a method of extracting sound source information by the use of fixed points of mapping

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from filter center frequency to output instantaneous frequency to be detected from instantaneous data as a value which can be interpreted quantitatively.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis A Michael whose telephone number is 703 505-8730. The examiner can normally be reached on Monday through Friday, 8:30 am – 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, To Doris can be reached on (703)305-4827. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lewis A Michael Examiner Art Unit 2655

Mal

2/18/2004

RICHEMOND DORVIL

SUPERVISORY PATENT EXAMINER